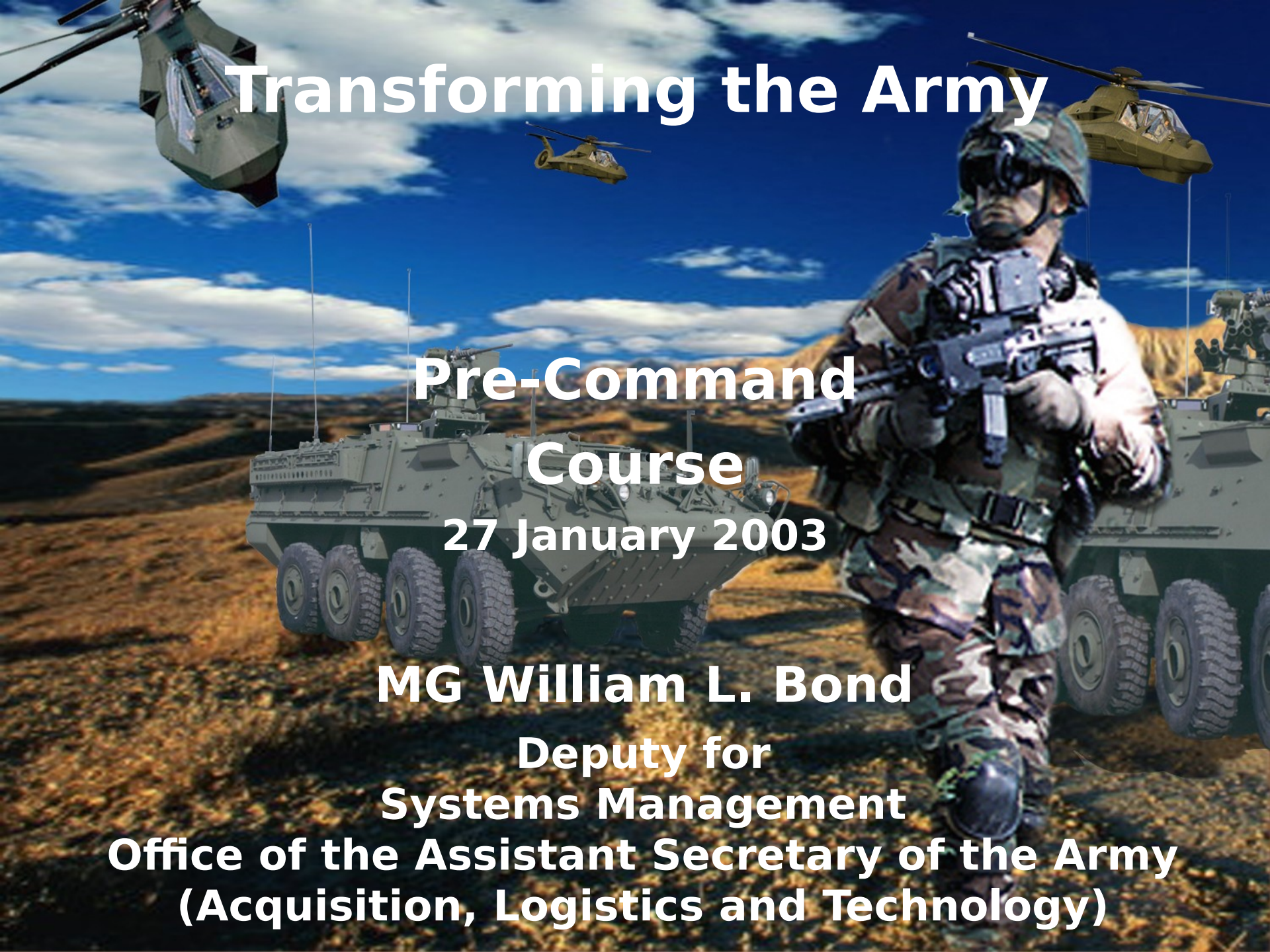


Transforming the Army

Pre-Command Course

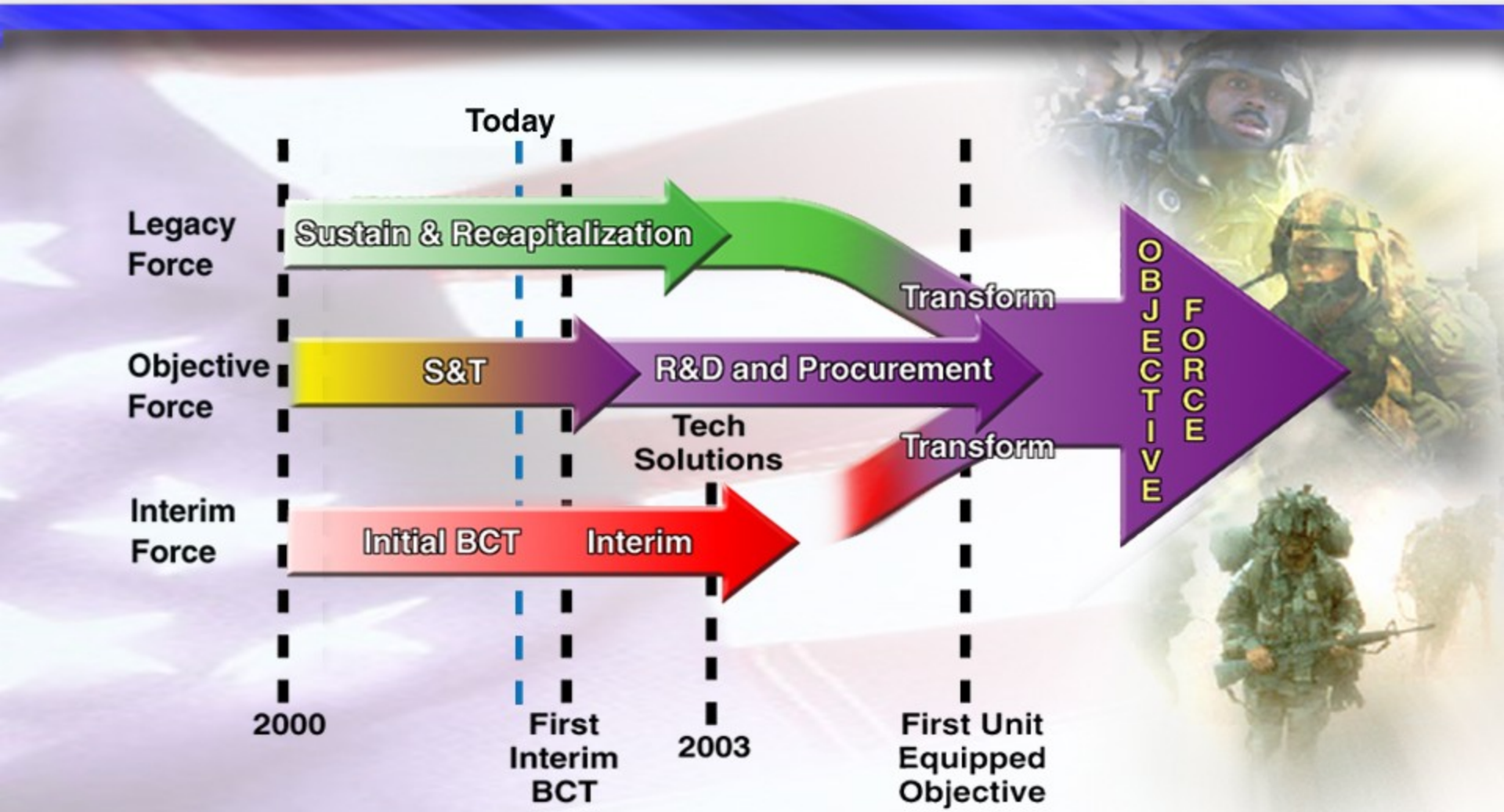
27 January 2003

MG William L. Bond

Deputy for
Systems Management
Office of the Assistant Secretary of the Army
(Acquisition, Logistics and Technology)

At War and Transformi

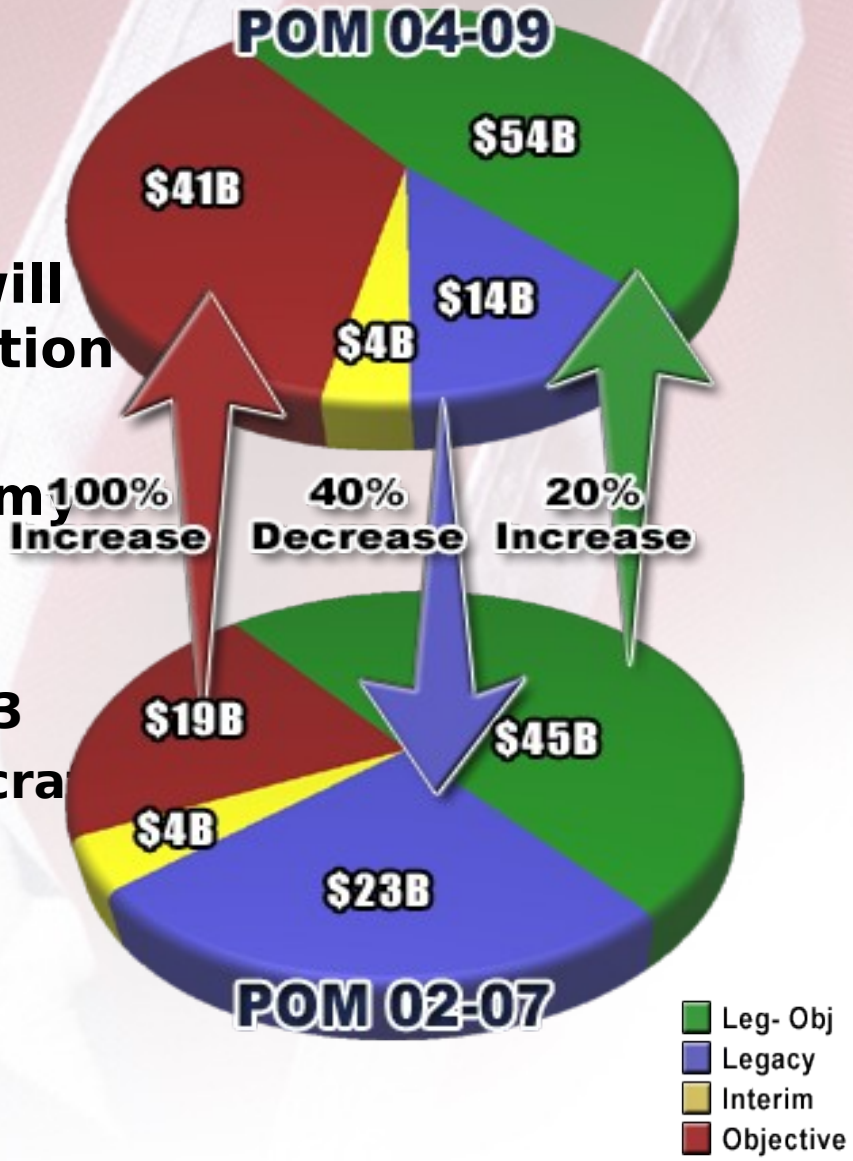
Army Transformation



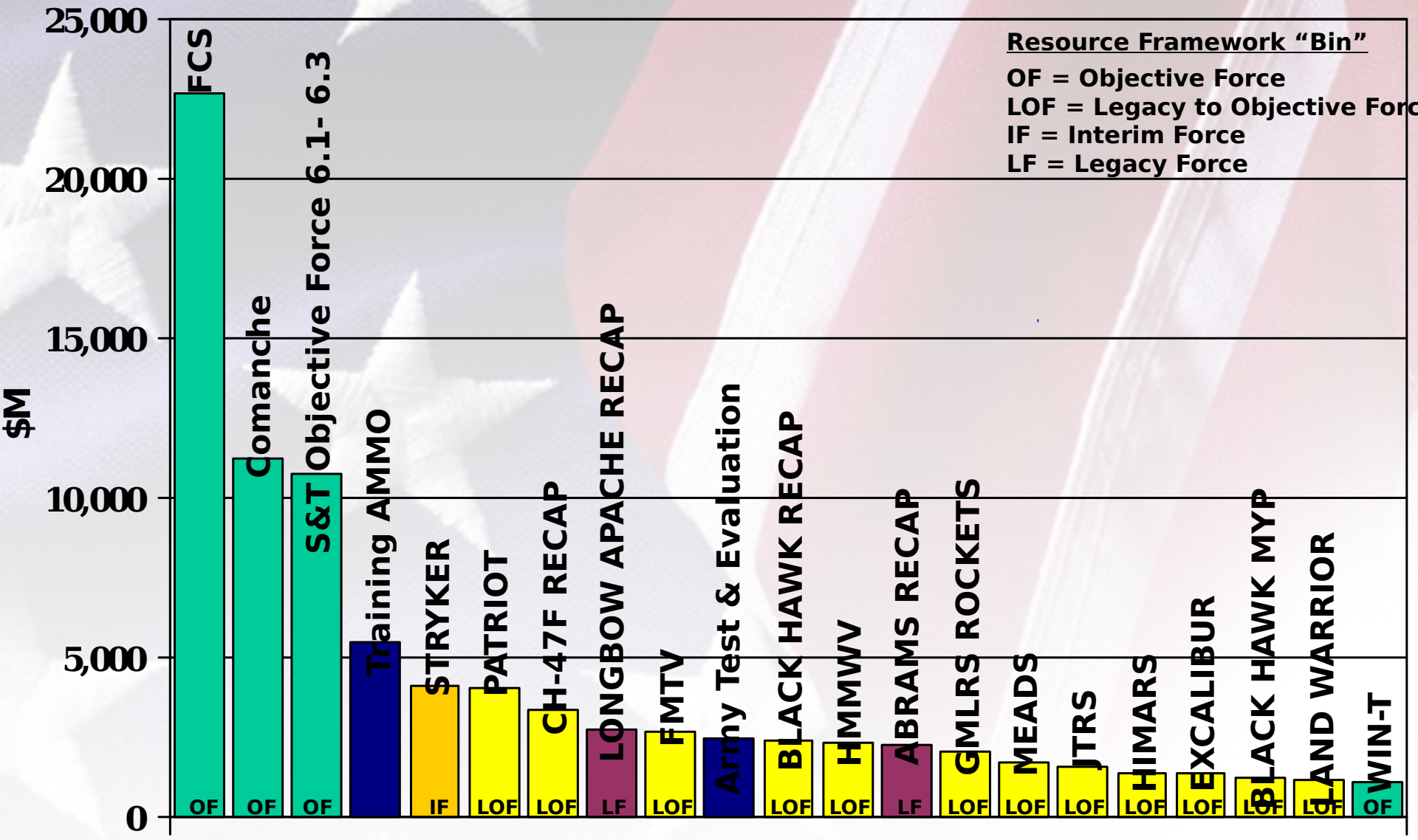
...Responsive, Deployable, Agile, Versatile,
Lethal, Survivable, Sustainable

Army Investment

- 90% of RDA supports OF
  - 53% OF
  - 37% LF>OF
- Restructures/terminations will transfer $23B to transformation
  - ~ $17B non-Crusader
- Recap focused on 10% of Army systems
- Aviation transformation
  - Reduce airframes from 6 to 3
  - Retire 1130 Vietnam era aircra
  - Reduce platforms by 25%

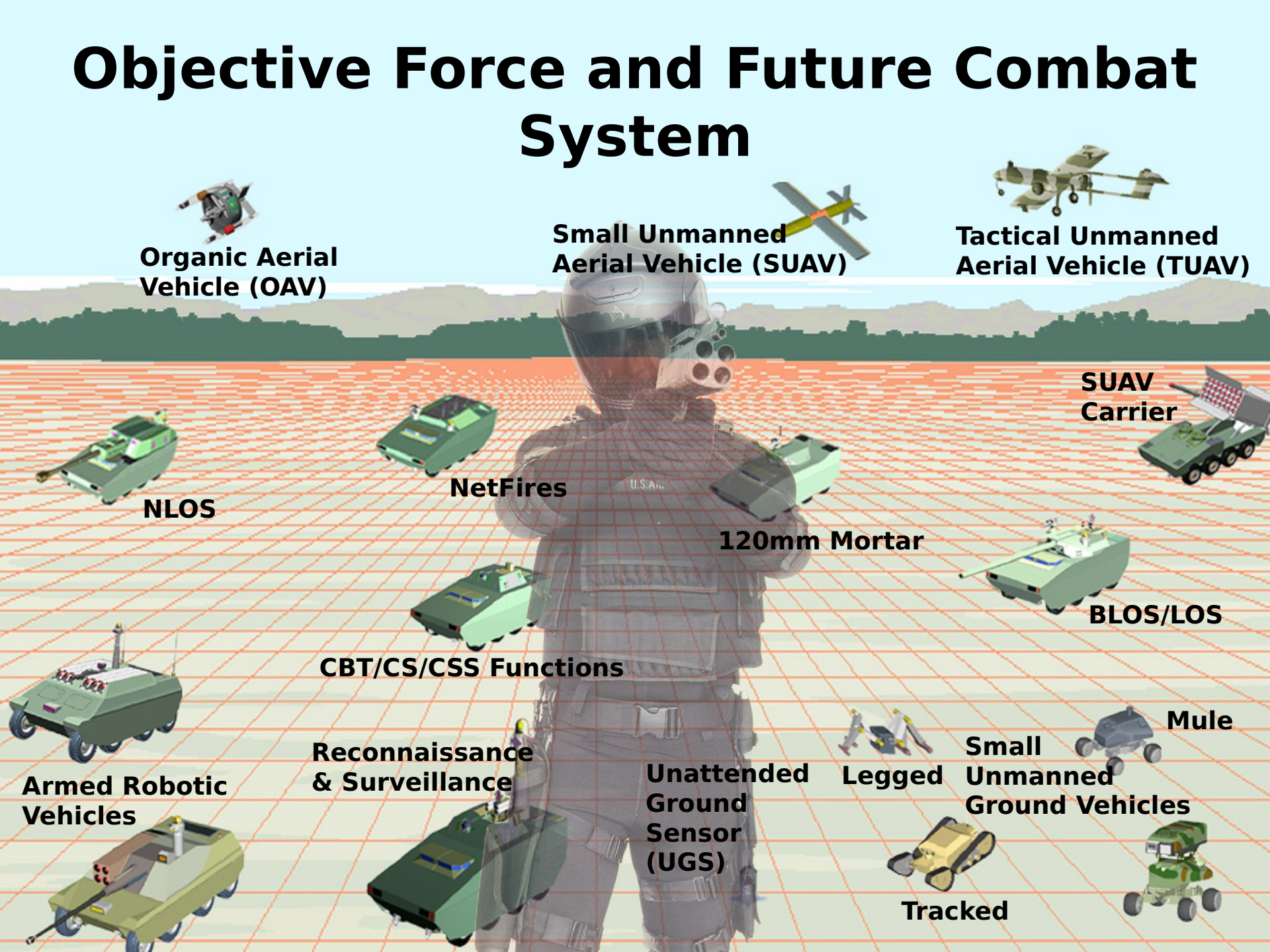


Army
Top Twenty RDA Programs FY 04-09*

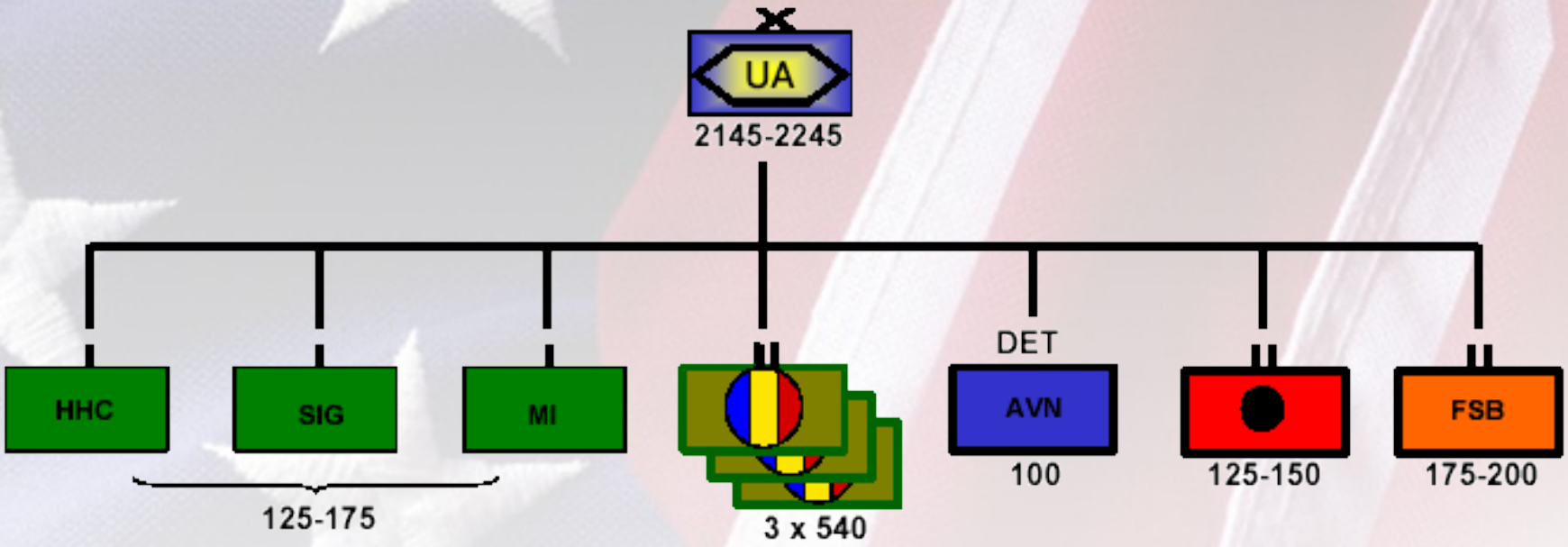


*As of September 18, 2002

Objective Force and Future Combat System



Unit of Action Organizational Structure



Unit of Action Pacing Items

54 Infantry Carrier Vehicles
54 Mounted Combat Systems
80 Command & Control Vehicles
27 Recon & Surveillance Vehicles
18 NLOS Cannon Vehicles
12 Small UAVs
24 NLOS Mortar Vehicles
8 Maintenance & Recovery Vehicles
32 Medical Treatment Vehicles
31 Armed Robotic Vehicles
8 Tactical UAVs
36 Organic Air Vehicles

Total UA WT: <10 K STONS **Total Platforms: 369+ , 66+ Air** **Total Personnel: 2145-2245**

Derived From 22 July UA O&O Plan (w/19 Aug Design Briefing) and 30 Aug FCS ORD

Stryker Brigade Combat Team

National Intelligence Means

- JSTARS
- Global Hawk

U2

Mobile Gun System

NBC Reconnaissance Vehicle

Command Vehicle

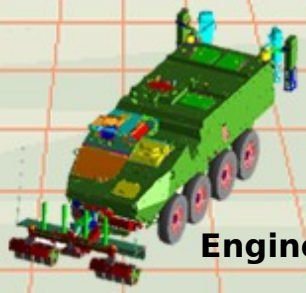
Medical Evacuation Vehicle

Infantry Carrier Vehicle

Fire Support Vehicle

Mortar Carrier Vehicle

Reconnaissance Vehicle



Engineer Squad Vehicle

Anti-Tank Guided Missile Vehicle

Stryker Brigade Combat Team Organizational Structure

BRIGADE HQ — 121 — IAV (2)

3546

3 INFANTRY BATTALIONS — 2037
Totals = 3XBN

120 mm MORTARS (30)
81 mm MORTARS (12)
60 mm Mortars (18)
M24 SNIPER RIFLE (15)
IAV (195)
MGS (27) HMMWV/ITAS
JAVELIN (81)

1 RSTA SQUARDON — 416

120 mm MORTARS (6)
GROUND RADAR (4)
MULTI-SENSOR
SHADOW UAV (3)
IAV (50
NBCRS (3) FOX93
JAVELIN (36)

1 ARTILLERY BATTALION — 278

M198 155T HOW (18)
COUNTER-BATTERY, REINFORCING, AND SHAPING FIRES
Q-36 (1)
Q-37 (1)
IAV (2)

1 SUPPORT BATTALION — 382

IAV RTF (21)
HEMMT-LHS (36)
HEMMT TANKERS (14)
FWD REPAIR SYSTEMS (7)
HEMMT WRECKERS (14)

1 ANTI-TANK COMPANY — 52

IAV TOW II-B (9)
FSV IAV (1)

67
TEL NY
LYSIS
(CGS)

1 ENGINEER COMPANY — 119

MICLIC (6) VOLCANO (3)
ESV (9) DUCE (6)
HMEE (6) ILO for SEE
REBS (4) ILO for MGB
JAVELIN (4)

1 SIGNAL COMPANY — 74

SMART-T (3) TROJAN SPIRIT (3)
BSN (2) BRSS (2) NOC-V (1)
RETRANS (15) EPLRS NCS-E (3)
EPLRS GATEWAYS (2) IAV (11)

Key Systems
309 x IAV
121 x JAVELIN
18 x 155 HOW
30 x 120mm Mortar
SMART-T
FBCB2
TUAV

Recapitalization Overview

Dominant Maneuver

AH-64D Apache

UH-60A/L/M Black Hawk

CH-47D/F Chinook

M113A3 FOV

M1A1 AIM/M1A2 SEP Abrams Tank

Small Emplacement Excavator

M2A3/M3A3 Bradley

Armored Combat Earthmover M9

Focused Logistics

Heavy Expanded Mobility Tactical Truck

Electronic Shops Shelter

HMMWV

M88A1/A2 Recovery Vehicle

Full Dimensional Protection

Patriot GSE

Precision Engagement

M270A1 Multiple Launch Rocket System

TPQ-36 (V5,V7,V8) Fire Finder

Field Artillery Ammunition Supply Vehicle

Army strategy – more than just platforms – focus on building combat capable units

Example-AH-64 Recapitalization

Rebuild

Task Force Hawk Fixes

- ***MTADS/PNVS**
  - Second Gen FLIR
  - Obsolescence
- HF Radio
- ***Internal Aux Fuel Tanks**
- ATIRCM
- SIRFC
- Video Transmission/Reception
- New Video Recorder

*** TF Hawk (-)**

R&S Fixes

Main Transmission Overhaul	Main Rotor Blade Fixes	Funny Harness
Emergency Hydraulics	Tail Rotor Blade Fixes	Gun Turret Overhaul
Hydraulic Sampling	Engine Nose Gearbox	"-65" Firewall
Fuel Released in Ammo Bay	Prim & Second. Nozzles	176 Frame
APU PTO Clutch	T&R Gearboxes	Fuel Crossfeed S
Main Rotor Head w/ Strap Pack	Prim. Nozzle	Marmim Clamp Canopy Remova
Fuel Vapor in Cockpit	APR-39 Water Intrusion	Main Landing Gear
Cracking Wing Pylon	BUSC Long./Dir. Actuator	Lead Lag Links
Bushing, Bearings & Hoses	Engine In Flight Power Loss	AP Fuel Valve & Line

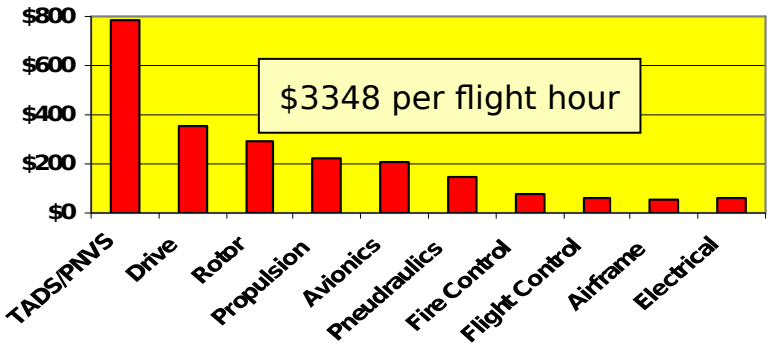
AH-64D Level I Enhancements

Upgraded Up Front Display	Digital Map
EPMS Upgrades	Single Point Data Download
EBC FCDB	IETM Upgrades
Expanded DTC	BDAR Manual
Fire Extinguisher	Breakout Box
Inertia Reel	TEDAC Integration
ELT/ULT	

Component Recap

Swashplate, Control	PECA	Laser Transceiver Unit
TADS	Manifold, Hydraulic	Cylinder Assembly
Pump, Axial Pistons	Control Module ASSY	Day Sensor Subassy
Actuator, Electro-ME	Nitrogen Inerting	IVD HDD
Processor, Signal, FI	Drive Unit, Angle	ECS
Power Supply	Servocylinder	
CCD Camera	Pump, Hydraulic RAM	

FY97- 00 O & S Cost Drivers



FY00 Year % MC Drivers

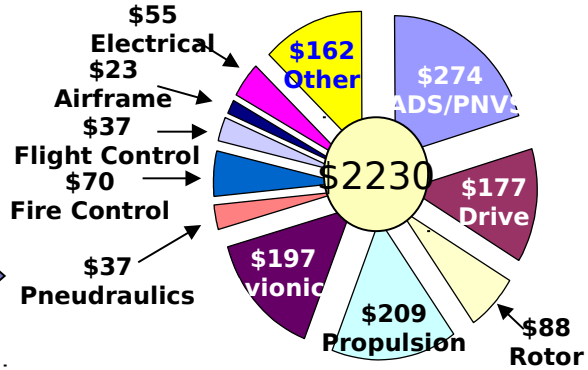
TADS/PNVS	30%
Main Transmission	20%
Main Rotor Head	12%
Main Rotor Blades	9%
Nose Gear Box	5%

* Observed trends, ongoing analysis to confirm data

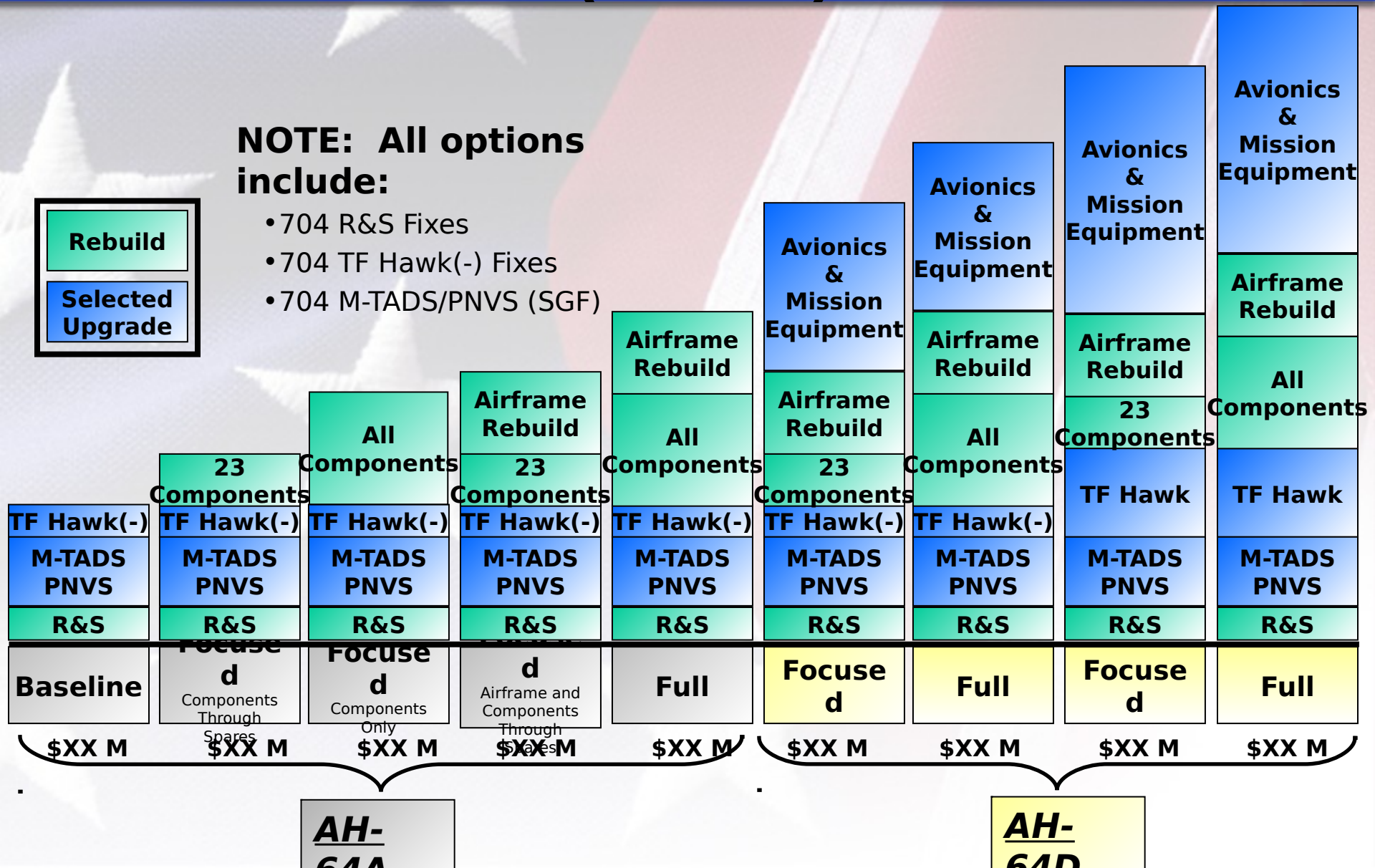
(AH-64A Data)

R&S, MTADS& Component Recap

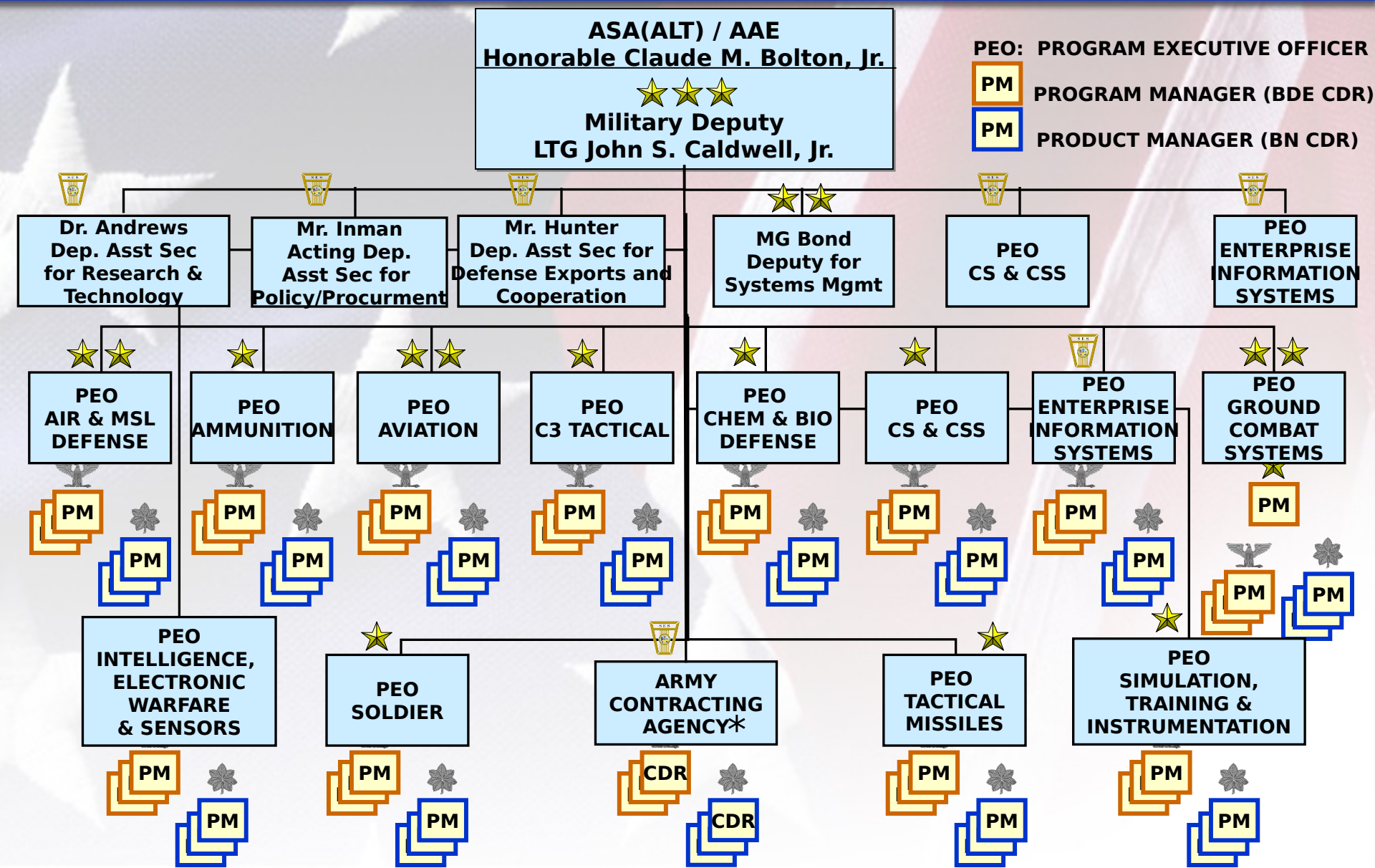
Projected Cost per Flight Ho



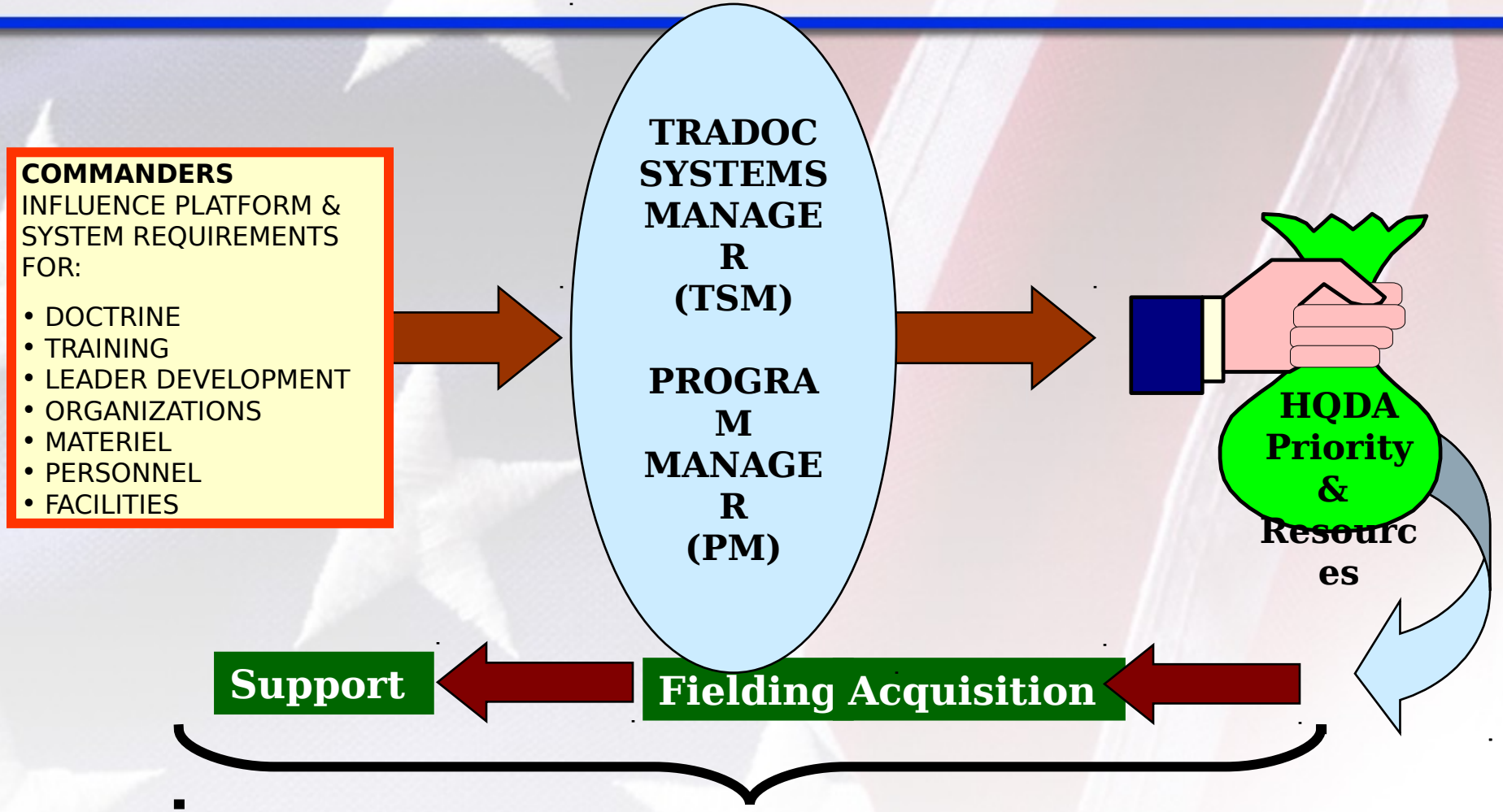
Example-Configuration Options (AH-64)



Acquisition Corps Command Structure


ASA(ALT) / AAE
Honorable Claude M. Bolton, Jr.
Military Deputy
LTG John S. Caldwell, Jr.
PEO: PROGRAM EXECUTIVE OFFICER
PM
PROGRAM MANAGER (BDE CDR)
PM
PRODUCT MANAGER (BN CDR)
Dr. Andrews Dep. Asst Sec for Research & Technology
Mr. Inman Acting Dep. Asst Sec for Policy/Procurment
Mr. Hunter Dep. Asst Sec for Defense Exports and Cooperation
MG Bond Deputy for Systems Mgmt
PEO CS & CSS
PEO ENTERPRISE INFORMATION SYSTEMS
PEO AIR & MSL DEFENSE
PEO AMMUNITION
PEO AVIATION
PEO C3 TACTICAL
PEO CHEM & BIO DEFENSE
PEO CS & CSS
PEO ENTERPRISE INFORMATION SYSTEMS
PEO GROUND COMBAT SYSTEMS
PEO INTELLIGENCE, ELECTRONIC WARFARE & SENSORS
PEO SOLDIER
ARMY CONTRACTING AGENCY*
PEO TACTICAL MISSILES
PEO SIMULATION, TRAINING & INSTRUMENTATION
CDR
CDR

Acquisition Process



You can exert tremendous leverage on the Acquisition Process as a Commander

PEOPLE

FIRST-RATE EQUIPMENT

- ***Success rests upon commanders to sustain and maintain a high quality force***

Commanders

TRAINING & READINESS

- ***Remain focused on the four critical facets that form the basis for today and***

LEADER DEVELOPMENT

Questions/Concerns?

BACKUP

Reductions / Restructure

POM / BES 04-09

($M)	FY04	FY04-09
Medium Tactical Vehicles	121.7	3,021.2
Abrams	155.6	1,173.7
Army Battle Command Systems	63.2	948.0
Second Gen FLIR	67.7	570.3
Javelin	40.9	406.0
HEMMT Recap	70.5	351.3
Modular Artillery Charge System	37.8	323.1
Night Vision AN/PVS-7	4.3	259.4
Prophet	0.3	236.4
Multi-Role Armament and Ammo System	0.0	212.0
Construction Equipment	8.7	200.7
Materiel Handling Equipment	2.2	162.5
TUAV	0.0	147.6
AVLB Recap	-10.2	138.1
Hercules	47.5	106.6
Theater Support Vessel	-12.0	80.2
Firefinder Q-47/Multi-mission Radar	29.5	72.2
Blackhawk	-0.8	67.4
Soldier Modernization	18.6	54.5
A2C2S	-1.3	33.0
Army Enterprise Architecture	2.7	32.7
Infrared Aiming Light	2.0	31.9
Aerial Reconnaissance Low	10.0	10.0
M113 Mods	0.2	9.1
Total Program Reductions/Restructures	659.1	8,647.9

The Army has reduced/restructured 24 systems for $8.6B

Terminations / Kills

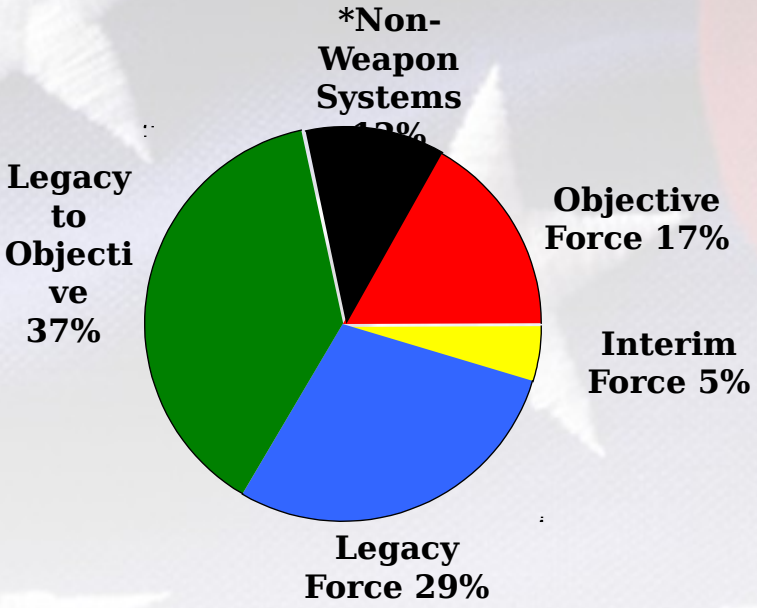
POM / BES 04-09

($M)	FY04	FY04-09
Crusader	475.1	5,738.9
Bradley A3	247.4	1,540.6
Abrams SEP	138.2	1,489.2
ATACMS BAT P3I	245.8	1,278.5
ATACMS Block II	86.4	688.7
MLRS 270A1 Conversion	110.9	667.5
Tactical Exploitation System	83.5	349.9
Wide Area Munitions	50.1	321.7
Raptor	29.1	289.4
25mm M919 Round	0.0	268.0
D7 Tractor	18.2	199.6
Stinger	33.0	195.7
Improved Target Acquisition System	28.7	172.4
Striker	8.7	171.5
Lightweight Video Recon System	14.4	167.0
120mm E4 Tank Round	0.0	128.2
Army Diagnostic Improvement Program	15.4	72.0
Joint Tactical Terminal	9.3	25.9
Common Ground Station, P3I	-8.0	25.9
Floodlight Sets	3.9	25.1
Guardrail	14.2	23.0
M16A4 Rifle	9.4	20.9
Non-lethal Capabilities Set	5.9	11.8
Mark-19 Grenade Launcher	2.9	2.9
Total Program Kills/Terminations	**1,622.5**	**13,869.9**

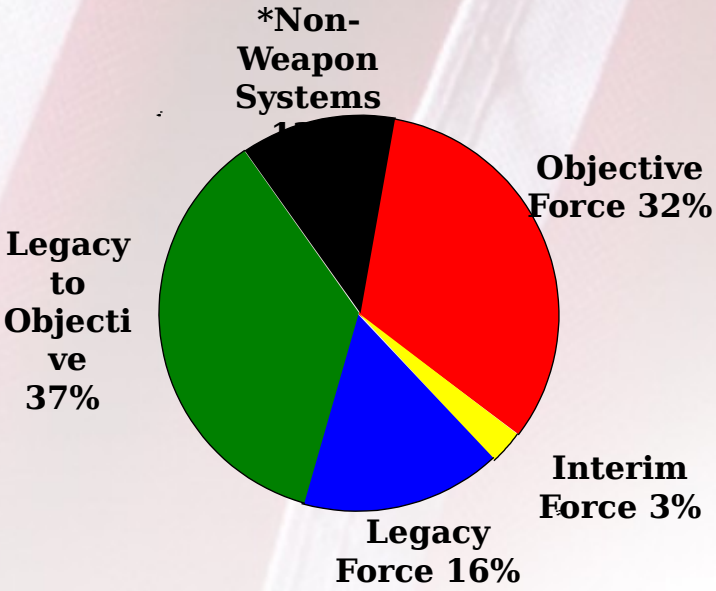
The Army has killed/terminated 24 systems for $13.9B

RDA Transformation Breakout

POM 0207
($104.2 B)



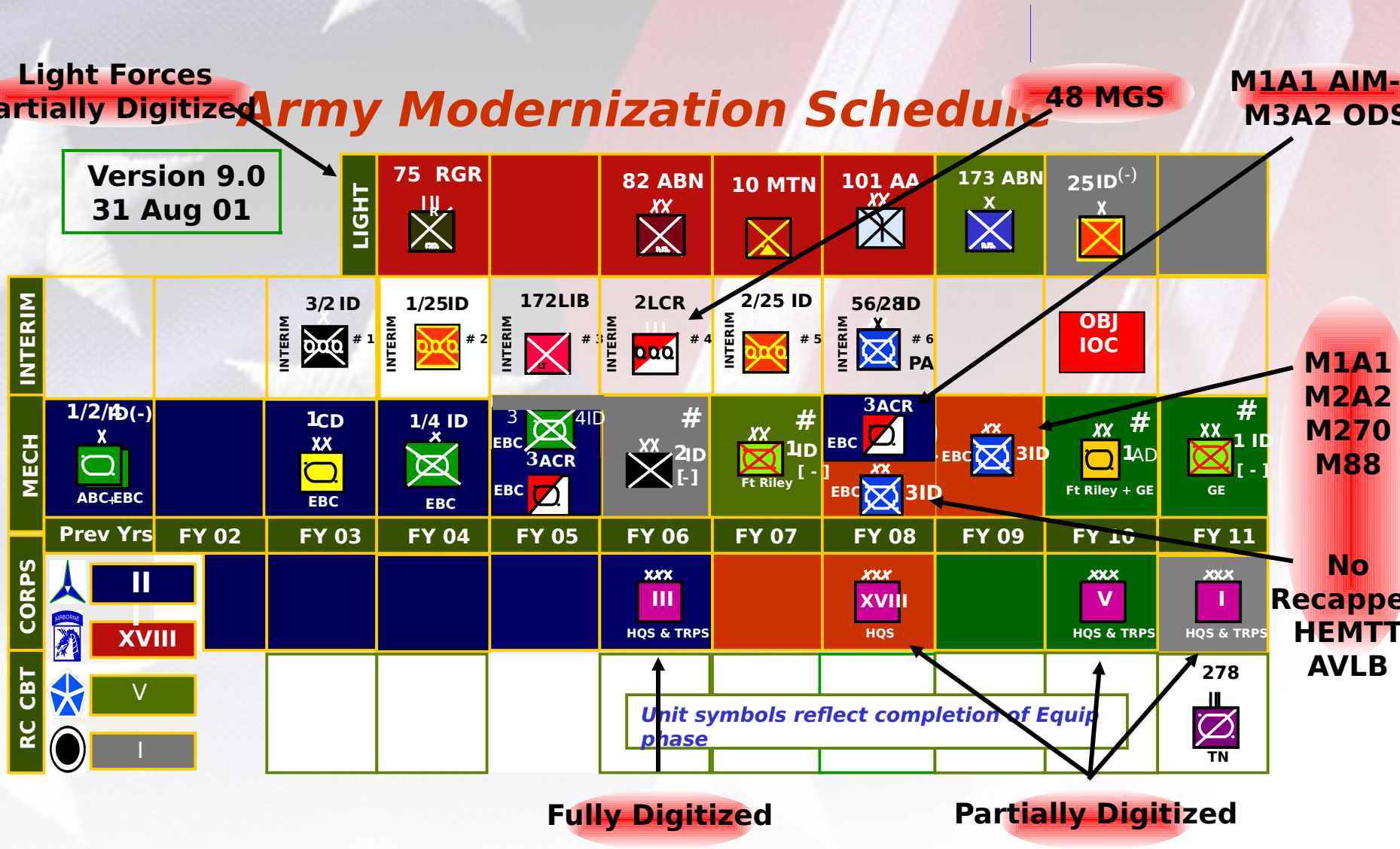
POM 0409
($141.2 B)



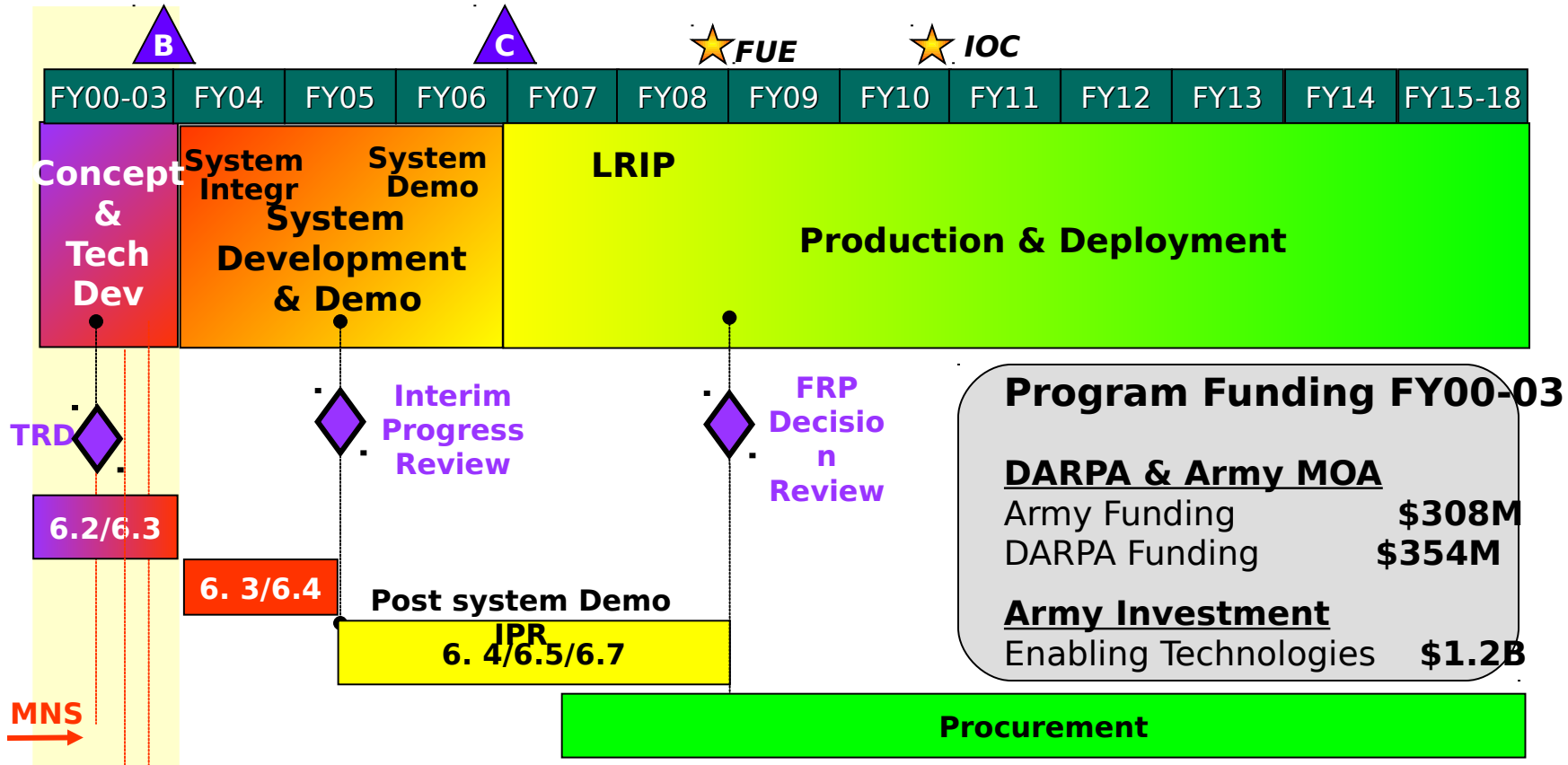
* - Includes Training Systems, Training Ammunition, Infrastructure

(T&E and War Reserve Ammo is 6% of Army RDA and 36% of Legacy Force)

After POM O4-09



FCS Schedule and Funding



Achieves FUE FY08 and IOC FY10

Stryker Program Success – Rapid Acquisition

CSA Announcement	**12 Oct 99**
Industry Day	**1 Dec 99**
Draft RFP	**30 Dec 99**
Platform Performance Demo	**Jan 00**
ORD Approved	**6 Mar 00**
ASR Approved	**3 Apr 00**
RFP Released	**6 Apr 00** **(6 months)**
Proposal Receipt	**6 Jun 00**
SSA Decision	**16 Aug 00**
DAB (MS II)	**16 Nov 00**
Contract Award	**16 Nov 00** **(13 months)**
Protest Resolution	**9 Apr 01** **(- 4 months lost)**
First Acceptance	**28 Feb 02**
First Handoff	**31 May 02** **(27 months actual)**
Brigade FUE	**Feb 03**
Brigade IOC	**May 03** **(39 months actual)**
IOTE Complete	**Sep 03**
MS III	**Dec 03**